

**§ 52.25-7 Electric boilers (modifies PEB-1 through PEB-19).**

Electric boilers required to comply with this part must meet the applicable provisions in this part and the mandatory requirements in PEB-1 through PEB-19 except PEB-3 of the ASME Code.

**§ 52.25-10 Organic fluid vaporizer generators (modifies PVG-1 through PVG-12).**

(a) Organic fluid vaporizer generators and parts thereof shall meet the requirements of PVG-1 through PVG-12 of the ASME Code except as noted otherwise in this section.

(b) The application and end use of organic fluid vaporizer generators shall be approved by the Commandant.

**§ 52.25-15 Fired thermal fluid heaters.**

(a) Fired thermal fluid heaters shall be designed, constructed, inspected, tested, and stamped in accordance with the applicable provisions in this part.

(b) Each fired thermal fluid heater must be fitted with a control which prevents the heat transfer fluid from being heated above its flash point.

(c) The heat transfer fluid must be chemically compatible with any cargo carried in the cargo tanks serviced by the heat transfer system.

(d) Each fired thermal fluid heater must be tested and inspected in accordance with the requirements of subpart 61.30 of this chapter.

[CGFR 68-82, 33 FR 18815, Dec. 18, 1968, as amended by CGD 88-057, 55 FR 24236, June 15, 1990]

**§ 52.25-20 Exhaust gas boilers.**

Exhaust gas boilers with a maximum allowable working pressure greater than 103 kPa gage (15 psig) or an operating temperature greater than 454 °C. (850 °F.) must be designed, constructed, inspected, tested and stamped in accordance with the applicable provisions in this part. The design temperature of parts exposed to the exhaust gas must be the maximum temperature that could normally be produced by the source of the exhaust gas. This temperature must be verified by testing or by the manufacturer of the engine or other equipment producing the exhaust. Automatic exhaust gas boiler

control systems must be designed, constructed, tested, and inspected in accordance with § 63.25-7 of this chapter.

[CGD 88-057, 55 FR 24236, June 15, 1990]

**PART 53—HEATING BOILERS****Subpart 53.01—General Requirements**

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**Subpart 53.12—Instruments, Fittings, and Controls**

53.12-1 General (modifies HG-600 through HG-640).

AUTHORITY: 46 U.S.C. 3306, 3703; E.O. 12234, 45 FR 58801, 3 CFR, 1980 Comp., p. 277; 49 CFR 1.46.

SOURCE: CGFR 68-82, 33 FR 18826, Dec. 18, 1968, unless otherwise noted.

**Subpart 53.01—General Requirements****§ 53.01-1 Incorporation by reference.**

(a) Certain material is incorporated by reference into this part with the approval of the Director of the Federal Register in accordance with 5 U.S.C. 552(a). To enforce any edition other than that specified in paragraph (b) of this section, the Coast Guard must publish notice of change in the FEDERAL REGISTER and make the material available to the public. All approved

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material is on file at the Office of the Federal Register, 800 North Capitol Street, NW., suite 700, Washington, DC, and at the U.S. Coast Guard, Office of Design and Engineering Standards (G-MSE), 2100 Second Street SW., Washington, DC 20593-0001 and is available from the sources indicated in paragraph (b) of this section.

(b) The material approved for incorporation by reference in this part and the sections affected are:

*American Society of Mechanical Engineers  
(ASME)*

United Engineering Center, 345 East 47th Street, New York, NY 10017  
Boiler and Pressure Vessel Code, Section IV, Heating Boilers, July 1989  
with 1989 addenda....53.01-5; 53.01-10; 53.05-1; 53.05-3; 53.05-5; 53.10-1; 53.10-3; 53.10-10; 53.10-15; 53.12-1

[CGD 88-032, 56 FR 35821, July 29, 1991, as amended by CGD 95-072, 60 FR 50462, Sept. 29, 1995; CGD 96-041, 61 FR 50727, Sept. 27, 1996]

### §53.01-3 Adoption of section IV of the ASME Code.

(a) Heating boilers shall be designed, constructed, inspected, tested, and stamped in accordance with section IV of the ASME (American Society of Mechanical Engineers) Code as limited, modified, or replaced by specific requirements in this part. The provisions in the appendices to section IV of the ASME Code are adopted and shall be followed when the requirements in section IV make them mandatory. For general information Table 53.01-1(a) lists the various paragraphs in section IV of the ASME Code which are limited, modified, or replaced by regulations in this part.

TABLE 53.01-1(A)—LIMITATIONS AND MODIFICATIONS IN THE ADOPTION OF SECTION IV OF THE ASME CODE

Paragraphs in section IV, ASME Code <sup>1</sup> and disposition	Unit of this part
HG-100 modified by .....	53.01-5(b)
HG-101 replaced by .....	53.01-10
HG-400 modified by .....	53.05-1
HG-400.2 modified by .....	53.05-2
HG-401 modified by .....	53.05-1
HG-401.2 modified by .....	53.05-3
HG-500 through HG-540 modified by .....	53.10-3

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TABLE 53.01-1(A)—LIMITATIONS AND MODIFICATIONS IN THE ADOPTION OF SECTION IV OF THE ASME CODE—Continued

Paragraphs in section IV, ASME Code <sup>1</sup> and disposition	Unit of this part
HG-600 through HG-640 modified by .....	53.12-1

<sup>1</sup>The references to specific provisions in the ASME Code are coded. The first letter "H" refers to section IV. The letter following "H" refers to a part or subpart in section IV. The number following the letters refers to the paragraph so numbered in the text of the part or subpart in section IV.

(b) References to the ASME Code, such as paragraph HG-307, indicate:

H=Section IV, Heating Boilers, ASME Code.

G=Part containing general requirements.

3=Article in part.

307=Paragraph within Article 3.

(c) When a paragraph or a section of the regulations in this part relates to material in section IV of the ASME Code, the relationship with the code will be shown immediately following the heading of the section or at the beginning of the paragraph as follows:

(1) (Modifies H\_\_\_\_.) This indicates that the material in H\_\_\_\_ is generally applicable but is being altered, amplified or augmented.

(2) (Replaces H\_\_\_\_.) This indicates that H\_\_\_\_ does not apply.

(3) (Reproduces H\_\_\_\_.) This indicates that H\_\_\_\_ is being identically reproduced for convenience, not for emphasis.

[CGFR 68-82, 33 FR 18826, Dec. 18, 1968, as amended by CGFR 69-127, 35 FR 9976, June 17, 1970; CGD 81-79, 50 FR 9435, Mar. 8, 1985. Redesignated and amended by CGD 88-032, 56 FR 35821, July 29, 1991]

### §53.01-5 Scope (modifies HG-100).

(a) The regulations in this part apply to steam heating boilers, hot water boilers (which include hot water heating boilers and hot water supply boilers), and to appurtenances thereto. The requirements in this part shall be used in conjunction with section IV of the ASME Code. Table 54.01-5(a) of this subchapter gives a breakdown by parts in this subchapter of the regulations governing various types of pressure vessels and boilers.

(b) (Modifies HG-100.) The requirements of Part HG of section IV, Heating Boilers, of the ASME Code shall be